

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
		S37 and (variable resist\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 17:11
		S37 and bridge and resist\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 16:56
L1	5	(two and single and way and communications and device and transducer).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:15
L2	11	(single and communications and device and transducer).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L3	2561	379/406.01-406.16.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L4	6	L3 and ((ear with canal) ear \$canal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L5	2561	379/406.01-406.16.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16

L6	0	379/420,433.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L7	0	379/420.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L8	285	379/420.01-420.04.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L9	1145	381/317,318,71.1-71.4.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L10	3116	381/150,151,190,380.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L11	231	381/163.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L12	8	L11 and ((ear with canal) ear \$canal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L13	35	("5280524").URPN.	USPAT	OR	OFF	2010/09/21 12:16
L14	31	L13 and ear	USPAT	OR	OFF	2010/09/21 12:16
L15	0	L13 and piezo\$7	USPAT	OR	OFF	2010/09/21 12:16
L16	1681	ear and piezoelectric	USPAT	OR	OFF	2010/09/21 12:16

L17	102	(ear with canal) and (echo with cancel\$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L18	10	("6415034").URPN.	USPAT	OR	OFF	2010/09/21 12:16
L19	734	ear\$phone and piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L20	6	ear\$phone and piezoelectric and echo and (lpf (low with filter)) and gain	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L21	46	ear\$phone and piezoelectric and bridge	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L22	8888	ear.ab.	JPO	OR	ON	2010/09/21 12:16
L23	1998	ear\$phone.ab.	JPO	OR	ON	2010/09/21 12:16
L24	34	L23 and transducer	JPO	OR	ON	2010/09/21 12:16
L25	3	ear and transducer and (bone with conduction)	JPO	OR	ON	2010/09/21 12:16
L26	827	ear and transducer and (bone with conduction)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L27	49	ear and transducer and (bone with conduction) and echo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L28	8	L27 and bridge	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16

L29	3	(US-6480610-\$ or US-6415034-\$ or US-5579284-\$ or US-5933506-\$ or US-5202918-\$). did.	USPAT	OR	OFF	2010/09/21 12:16
L30	1	L29 and train\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L31	0	L29 and (test)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L32	0	L29 and (train\$4 with signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L33	852	adc.ab. and "low pass filter"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L34	290	adc.ab. and ("low pass filter"). ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L35	1036	transducer.ab. and (bi \$directional two\$way duplex). ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L36	121	L35 and piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L37	7	L36 and bridge and resistor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16

L38	13	L36 and bridge and resist\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L39	12	L36 and (variable with resist\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L40	5	(two and single and way and communications and device and transducer).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L41	11	(single and communications and device and transducer).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L42	2561	379/406.01-406.16.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L43	6	L42 and ((ear with canal) ear \$canal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L44	2561	379/406.01-406.16.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L45	0	379/420,433.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L46	0	379/420.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16

L47	285	379/420.01-420.04.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L48	1145	381/317,318,71.1-71.4.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L49	3116	381/150,151,190,380.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L50	231	381/163.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L51	8	L50 and ((ear with canal) ear \$canal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L52	35	("5280524").URPN.	USPAT	OR	OFF	2010/09/21 12:16
L53	31	L52 and ear	USPAT	OR	OFF	2010/09/21 12:16
L54	0	L52 and piezo\$7	USPAT	OR	OFF	2010/09/21 12:16
L55	1681	ear and piezoelectric	USPAT	OR	OFF	2010/09/21 12:16
L56	102	(ear with canal) and (echo with cancel\$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L57	10	("6415034").URPN.	USPAT	OR	OFF	2010/09/21 12:16
L58	734	ear\$phone and piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16

L59	6	ear\$phone and piezoelectric and echo and (lpf (low with filter)) and gain	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L60	46	ear\$phone and piezoelectric and bridge	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L61	8888	ear.ab.	JPO	OR	ON	2010/09/21 12:16
L62	1998	ear\$phone.ab.	JPO	OR	ON	2010/09/21 12:16
L63	34	L62 and transducer	JPO	OR	ON	2010/09/21 12:16
L64	3	ear and transducer and (bone with conduction)	JPO	OR	ON	2010/09/21 12:16
L65	827	ear and transducer and (bone with conduction)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L66	49	ear and transducer and (bone with conduction) and echo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L67	8	L66 and bridge	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L68	3	(US-6480610-\$ or US-6415034-\$ or US-5579284-\$ or US-5933506-\$ or US-5202918-\$). did.	USPAT	OR	OFF	2010/09/21 12:16
L69	1	L68 and train\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L70	0	L68 and (test)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16

L71	0	L68 and (train\$4 with signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L72	852	adc.ab. and "low pass filter"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L73	290	adc.ab. and ("low pass filter"). ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L74	1036	transducer.ab. and (bi \$directional two\$way duplex). ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L75	121	L74 and piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L76	7	L75 and bridge and resistor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L77	13	L75 and bridge and resist\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L78	12	L75 and (variable with resist\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L79	2	"5307405".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16



L80	5	(two and single and way and communications and device and transducer).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L81	11	(single and communications and device and transducer).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L82	2561	379/406.01-406.16.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L83	6	L82 and ((ear with canal) ear \$canal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L84	2561	379/406.01-406.16.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L85	0	379/420,433.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L86	0	379/420.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L87	285	379/420.01-420.04.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L88	1145	381/317,318,71.1-71.4.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16

L89	3116	381/150,151,190,380.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L90	231	381/163.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L91	8	L90 and ((ear with canal) ear \$canal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L92	35	("5280524").URPN.	USPAT	OR	OFF	2010/09/21 12:16
L93	31	L92 and ear	USPAT	OR	OFF	2010/09/21 12:16
L94	0	L92 and piezo\$7	USPAT	OR	OFF	2010/09/21 12:16
L95	1681	ear and piezoelectric	USPAT	OR	OFF	2010/09/21 12:16
L96	102	(ear with canal) and (echo with cancel\$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L97	10	("6415034").URPN.	USPAT	OR	OFF	2010/09/21 12:16
L98	734	ear\$phone and piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L99	6	ear\$phone and piezoelectric and echo and (lpf (low with filter)) and gain	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L100	46	ear\$phone and piezoelectric and bridge	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16

L101	8888	ear.ab.	JPO	OR	ON	2010/09/21 12:16
L102	1998	ear\$phone.ab.	JPO	OR	ON	2010/09/21 12:16
L103	34	L102 and transducer	JPO	OR	ON	2010/09/21 12:16
L104	3	ear and transducer and (bone with conduction)	JPO	OR	ON	2010/09/21 12:16
L105	827	ear and transducer and (bone with conduction)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L106	49	ear and transducer and (bone with conduction) and echo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L107	8	L106 and bridge	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L108	3	(US-6480610-\$ or US-6415034-\$ or US-5579284-\$ or US-5933506-\$ or US-5202918-\$). did.	USPAT	OR	OFF	2010/09/21 12:16
L109	1	L108 and train\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L110	0	L108 and (test)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L111	0	L108 and (train\$4 with signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L112	852	adc.ab. and "low pass filter"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16

L113	290	adc.ab. and ("low pass filter"). ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L114	1036	transducer.ab. and (bi \$directional two\$way duplex). ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L115	121	L114 and piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L116	7	L115 and bridge and resistor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L117	13	L115 and bridge and resist\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L118	12	L115 and (variable with resist \$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L119	5	(two and single and way and communications and device and transducer).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L120	11	(single and communications and device and transducer).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L121	2561	379/406.01-406.16.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16

L122	6	L121 and ((ear with canal) ear \$canal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L123	2561	379/406.01-406.16.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L124	0	379/420,433.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L125	0	379/420.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L126	285	379/420.01-420.04.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L127	1145	381/317,318,71.1-71.4.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L128	3116	381/150,151,190,380.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L129	231	381/163.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L130	8	L129 and ((ear with canal) ear \$canal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16

L131	35	("5280524").URPN.	USPAT	OR	OFF	2010/09/21 12:16
L132	31	L131 and ear	USPAT	OR	OFF	2010/09/21 12:16
L133	0	L131 and piezo\$7	USPAT	OR	OFF	2010/09/21 12:16
L134	1681	ear and piezoelectric	USPAT	OR	OFF	2010/09/21 12:16
L135	102	(ear with canal) and (echo with cancel\$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L136	10	("6415034").URPN.	USPAT	OR	OFF	2010/09/21 12:16
L137	734	ear\$phone and piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L138	6	ear\$phone and piezoelectric and echo and (lpf (low with filter)) and gain	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L139	46	ear\$phone and piezoelectric and bridge	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L140	8888	ear.ab.	JPO	OR	ON	2010/09/21 12:16
L141	1998	ear\$phone.ab.	JPO	OR	ON	2010/09/21 12:16
L142	34	L141 and transducer	JPO	OR	ON	2010/09/21 12:16
L143	3	ear and transducer and (bone with conduction)	JPO	OR	ON	2010/09/21 12:16
L144	827	ear and transducer and (bone with conduction)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16

L145	49	ear and transducer and (bone with conduction) and echo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L146	8	L145 and bridge	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L147	3	(US-6480610-\$ or US-6415034-\$ or US-5579284-\$ or US-5933506-\$ or US-5202918-\$). did.	USPAT	OR	OFF	2010/09/21 12:16
L148	1	L147 and train\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L149	0	L147 and (test)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L150	0	L147 and (train\$4 with signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L151	852	adc.ab. and "low pass filter"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L152	290	adc.ab. and ("low pass filter"). ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L153	1036	transducer.ab. and (bi \$directional two\$way duplex). ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16

L154	121	L153 and piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L155	7	L154 and bridge and resistor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L156	13	L154 and bridge and resist\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L157	12	L154 and (variable with resist \$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L158	5	(ear\$phone hearing).ab. and piezoelectric and (resist\$4 with bridge)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L159	1332	impedance with bridge with transformer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L160	0	(ear\$phone hearing).ab. and L159	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L161	364	impedance with bridge with transducer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L162	70	impedance with bridge with transducer with resist\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16



L163	0	impedance with bridge with transducer with resist\$3 with echo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L164	1	impedance with bridge with transducer with resist\$3 and echo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:16
L165	212	KUME.in. and YASUHIRO.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:29
L166	6	KUME.in. and YASUHIRO.in. and MASUDA.in. and MASAHISA.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:30
L167	231	381/163.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:31
L170	603	379/406.08.ccls.	USPAT	OR	ON	2010/09/21 12:41
L171	0	("20030185403").PN.	USPAT	OR	ON	2010/09/21 12:48
L172	2	("20030185403").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:48
L173	123	("1224331"   "2955140"   "3114105"   "3370236"   "3781492"   "3829624"   "4002860"   "4052562"   "4065646"   "4156800"   "4280018"   "4403120"   "4470127"   "4519029"   "4598396"   "4629829"   "4644330"   "4668842"   "4691313"   "4741018"   "4833719"   "4837829"   "4912758"   "4966045"   "4972491"   "5007046"   "5099519"   "5104824"   "5115471"   "5118309"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/21 12:49

		"5168522"   "5172410"   "5175633"   "5235637"   "5265264"   "5287406"   "5311144"   "5335286"   "5379450"   "5393989"   "5410595"   "5465298"   "5471666"   "5586193"   "5692059"   "5715309"   "5824966"   "5899973"   "6105714").PN.				
S1	0	(two and single and way and communications and device and transducer).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 11:53
S2	1	(single and communications and device and transducer).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/10 13:58
S3	1893	379/406.01-406.16.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/10 13:58
S4	1	S3 and ((ear with canal) ear \$canal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/10 14:22
S5	1893	379/406.01-406.16.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/10 14:22
S6	0	379/420,433.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/10 14:22
S7	0	379/420.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/10 14:23

S8	207	379/420.01-420.04.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/10 14:24
S9	585	381/317,318,71.1-71.4.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/10 14:25
S10	2537	381/150,151,190,380.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/10 14:25
S11	219	381/163.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/10 14:26
S12	8	S11 and ((ear with canal) ear \$canal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 12:38
S13	24	("5280524").URPN.	USPAT	OR	OFF	2005/06/10 14:26
S14	20	S13 and ear	USPAT	OR	OFF	2005/06/10 14:27
S15	0	S13 and piezo\$7	USPAT	OR	OFF	2005/06/10 14:28
S16	1106	ear and piezoelectric	USPAT	OR	OFF	2005/06/13 11:52
S17	25	(ear with canal) and (echo with cancel\$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 11:53
S18	2	("6415034").URPN.	USPAT	OR	OFF	2005/06/13 12:35
S19	408	ear\$phone and piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 12:38

S20	3	ear\$phone and piezoelectric and echo and (lpf (low with filter)) and gain	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 12:41
S21	20	ear\$phone and piezoelectric and bridge	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 12:45
S22	6995	ear.ab.	JPO	OR	ON	2005/06/13 12:45
S23	1514	ear\$phone.ab.	JPO	OR	ON	2005/06/13 12:45
S24	26	S23 and transducer	JPO	OR	ON	2005/06/13 12:47
S25	2	ear and transducer and (bone with conduction)	JPO	OR	ON	2005/06/13 12:47
S26	360	ear and transducer and (bone with conduction)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 13:02
S28	14	ear and transducer and (bone with conduction) and echo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 12:48
S29	1	S28 and bridge	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 12:48
S30	5	(US-6480610-\$ or US-6415034-\$ or US-5579284-\$ or US-5933506-\$ or US-5202918-\$). did.	USPAT	OR	OFF	2005/06/13 13:02
S31	2	S30 and train\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 16:45
S32	0	S30 and (test)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 13:27

S33	1	S30 and (train\$4 with signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 13:27
S34	376	adc.ab. and "low pass filter"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 16:45
S35	157	adc.ab. and ("low pass filter"). ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 16:54
S36	807	transducer.ab. and (bi \$directional two\$way duplex). ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 16:54
S37	88	S36 and piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 16:54
S38	5	S37 and bridge and resistor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 16:56
S39	6	S37 and bridge and resist\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 17:11
S40	7	S37 and (variable with resist\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 17:11
S41	4	(two and single and way and communications and device and transducer).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36

S42	9	(single and communications and device and transducer).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S43	2371	379/406.01-406.16.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S44	2	S43 and ((ear with canal) ear \$canal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S45	2371	379/406.01-406.16.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S46	0	379/420,433.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S47	0	379/420.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S48	262	379/420.01-420.04.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S49	911	381/317,318,71.1-71.4.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S50	2891	381/150,151,190,380.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36

S51	225	381/163.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S52	8	S51 and ((ear with canal) ear \$canal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S53	33	("5280524").URPN.	USPAT	OR	OFF	2008/12/19 17:36
S54	29	S53 and ear	USPAT	OR	OFF	2008/12/19 17:36
S55	0	S53 and piezo\$7	USPAT	OR	OFF	2008/12/19 17:36
S56	1446	ear and piezoelectric	USPAT	OR	OFF	2008/12/19 17:36
S57	59	(ear with canal) and (echo with cancel\$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S58	4	("6415034").URPN.	USPAT	OR	OFF	2008/12/19 17:36
S59	579	ear\$phone and piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S60	6	ear\$phone and piezoelectric and echo and (lpf (low with filter)) and gain	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S61	28	ear\$phone and piezoelectric and bridge	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S62	8311	ear.ab.	JPO	OR	ON	2008/12/19 17:36
S63	1861	ear\$phone.ab.	JPO	OR	ON	2008/12/19 17:36
S64	31	S63 and transducer	JPO	OR	ON	2008/12/19 17:36

S65	3	ear and transducer and (bone with conduction)	JPO	OR	ON	2008/12/19 17:36
S66	583	ear and transducer and (bone with conduction)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S67	32	ear and transducer and (bone with conduction) and echo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S68	4	S67 and bridge	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S69	5	(US-6480610-\$ or US-6415034-\$ or US-5579284-\$ or US-5933506-\$ or US-5202918-\$). did.	USPAT	OR	OFF	2008/12/19 17:36
S70	2	S69 and train\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S71	0	S69 and (test)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S72	1	S69 and (train\$4 with signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S73	685	adc.ab. and "low pass filter"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S74	243	adc.ab. and ("low pass filter"). ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36



S75	932	transducer.ab. and (bi \$directional two\$way duplex). ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S76	109	S75 and piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S77	7	S76 and bridge and resistor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S78	9	S76 and bridge and resist\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S79	9	S76 and (variable with resist\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:36
S80	2	"5307405".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:41
S81	4	(two and single and way and communications and device and transducer).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S82	9	(single and communications and device and transducer).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S83	2424	379/406.01-406.16.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49

S84	3	S83 and ((ear with canal) ear \$canal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S85	2424	379/406.01-406.16.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S86	0	379/420,433.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S87	0	379/420.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S88	270	379/420.01-420.04.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S89	982	381/317,318,71.1-71.4.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S90	2964	381/150,151,190,380.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S91	227	381/163.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S92	8	S91 and ((ear with canal) ear \$canal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49

S93	35	("5280524").URPN.	USPAT	OR	OFF	2009/07/13 13:49
S94	31	S93 and ear	USPAT	OR	OFF	2009/07/13 13:49
S95	0	S93 and piezo\$7	USPAT	OR	OFF	2009/07/13 13:49
S96	1518	ear and piezoelectric	USPAT	OR	OFF	2009/07/13 13:49
S97	74	(ear with canal) and (echo with cancel\$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S98	5	("6415034").URPN.	USPAT	OR	OFF	2009/07/13 13:49
S99	615	ear\$phone and piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S100	6	ear\$phone and piezoelectric and echo and (lpf (low with filter)) and gain	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S101	32	ear\$phone and piezoelectric and bridge	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S102	8497	ear.ab.	JPO	OR	ON	2009/07/13 13:49
S103	1911	ear\$phone.ab.	JPO	OR	ON	2009/07/13 13:49
S104	31	S103 and transducer	JPO	OR	ON	2009/07/13 13:49
S105	3	ear and transducer and (bone with conduction)	JPO	OR	ON	2009/07/13 13:49
S106	661	ear and transducer and (bone with conduction)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49

S107	36	ear and transducer and (bone with conduction) and echo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S108	5	S107 and bridge	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S109	3	(US-6480610-\$ or US-6415034-\$ or US-5579284-\$ or US-5933506-\$ or US-5202918-\$). did.	USPAT	OR	OFF	2009/07/13 13:49
S110	1	S109 and train\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S111	0	S109 and (test)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S112	0	S109 and (train\$4 with signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S113	743	adc.ab. and "low pass filter"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S114	259	adc.ab. and ("low pass filter"). ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S115	964	transducer.ab. and (bi \$directional two\$way duplex). ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49

S116	114	S115 and piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S117	7	S116 and bridge and resistor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S118	11	S116 and bridge and resist\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S119	11	S116 and (variable with resist \$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S120	4	(two and single and way and communications and device and transducer).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S121	9	(single and communications and device and transducer).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S122	2424	379/406.01-406.16.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S123	3	S122 and ((ear with canal) ear \$canal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S124	2424	379/406.01-406.16.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49

S125	0	379/420,433.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S126	0	379/420.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S127	270	379/420.01-420.04.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S128	982	381/317,318,71.1-71.4.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S129	2964	381/150,151,190,380.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S130	227	381/163.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S131	8	S130 and ((ear with canal) ear \$canal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S132	35	("5280524").URPN.	USPAT	OR	OFF	2009/07/13 13:49
S133	31	S132 and ear	USPAT	OR	OFF	2009/07/13 13:49
S134	0	S132 and piezo\$7	USPAT	OR	OFF	2009/07/13 13:49
S135	1518	ear and piezoelectric	USPAT	OR	OFF	2009/07/13 13:49

S136	74	(ear with canal) and (echo with cancel\$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S137	5	("6415034").URPN.	USPAT	OR	OFF	2009/07/13 13:49
S138	615	ear\$phone and piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S139	6	ear\$phone and piezoelectric and echo and (lpf (low with filter)) and gain	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S140	32	ear\$phone and piezoelectric and bridge	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S141	8497	ear.ab.	JPO	OR	ON	2009/07/13 13:49
S142	1911	ear\$phone.ab.	JPO	OR	ON	2009/07/13 13:49
S143	31	S142 and transducer	JPO	OR	ON	2009/07/13 13:49
S144	3	ear and transducer and (bone with conduction)	JPO	OR	ON	2009/07/13 13:49
S145	661	ear and transducer and (bone with conduction)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S146	36	ear and transducer and (bone with conduction) and echo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S147	5	S146 and bridge	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49

S148	3	(US-6480610-\$ or US-6415034-\$ or US-5579284-\$ or US-5933506-\$ or US-5202918-\$). did.	USPAT	OR	OFF	2009/07/13 13:49
S149	1	S148 and train\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S150	0	S148 and (test)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S151	0	S148 and (train\$4 with signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S152	743	adc.ab. and "low pass filter"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S153	259	adc.ab. and ("low pass filter"). ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S154	964	transducer.ab. and (bi \$directional two\$way duplex). ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S155	114	S154 and piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S156	7	S155 and bridge and resistor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49



S157	11	S155 and bridge and resist\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S158	11	S155 and (variable with resist \$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 13:49
S159	5	(ear\$phone hearing).ab. and piezoelectric and (resist\$4 with bridge)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 14:23
S160	1315	impedance with bridge with transformer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 14:30
S161	0	(ear\$phone hearing).ab. and S160	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 14:30
S162	354	impedance with bridge with transducer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 14:30
S163	65	impedance with bridge with transducer with resist\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 14:30
S164	0	impedance with bridge with transducer with resist\$3 with echo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 14:34
S165	1	impedance with bridge with transducer with resist\$3 and echo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 14:34

**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L168	133	381/163.ccls.	USPAT; UPAD	OR	ON	2010/09/21 12:31
L169	607	379/406.08.ccls.	USPAT; UPAD	OR	ON	2010/09/21 12:41

**9/ 21/ 2010 12:51:31 PM****H:\ EAST\ Workspaces\ 10595757.wsp**